	Application No.	Applicant(s)
Notice of Allowability	10/774,258	KUTSCHERA, WOLFGANG
	Examiner	Art Unit
	Courtney Thomas	2882
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commures GHTS. This application is su	this application. If not included nication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>07/02/04</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-11</u> .		
3. \boxtimes The drawings filed on <u>02 July 2004</u> are accepted by the Ex	aminer.	
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the priority documents have This THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application cuments have been received of this communication to file a	No in this national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers	•	(PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's 		n the Office action of
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Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 07/02/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sur Paper No./M 8), 7. ☐ Examiner's A	lail Date mendment/Comment statement of Reasons for Allowance

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-11 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
- 3. As per claim 1 and dependent claims 2-7, the examiner found no reference in the prior art that disclosed or made obvious a rotating anode for an X-ray tube comprising: an anode body composed of composite fiber material, including fibers having a preferred heat conductivity in a longitudinal fiber direction, wherein a majority of the fibers have opposite end faces that terminate bluntly at a focal ring and at a surface (of a cooling system aligned with the anode axis) with respective end surfaces in direct, heat-conducting, abutting contact with the focal ring and with the cooling system as recited in independent claim 1.
- 4. As per claim 8 and dependent claims 9-11, the examiner found no reference in the prior art that disclosed or made obvious a method for producing a rotating anode comprising the steps of: a) producing a plurality of shell-shaped formed components respectively of different sizes and similar geometric shapes for nesting within each other with an outer diameter of a smaller of the formed components corresponding to an inner diameter of a larger of the formed components, b) producing a centrally disposed bore in each of the formed components, the respective bores having substantially identical diameters, c) combining the formed components by nesting to form an anode body with the bores concentrically aligned and d) disposing a cooling system in the anode body in the bores of the formed components as recited in independent claim 8.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
- 6. U.S. Patent 3,735,175 to Blomgren, Jr. discloses a rotary anode for an X-ray tube comprising a cooling system aligned with the anode axis of rotation; wherein the anode body has surfaces facing the cooling system and thermally interacting with the cooling system (see Fig. 1).
- 7. **U.S. Patent 6,430,264 to Lee** discloses a rotary anode for an X-ray tube constructed of composite fiber material having directionally oriented fibers enabling the anode to withstand mechanical stresses due to rotational motion and high temperatures associated within an X-ray tube environment (column 6, lines 45-67, column 7, lines 1-16; see also Figs. 2 & 4).
- 8. U.S. Patent Application Publication 2004/0013234 to Kutschera discloses an X-ray tube anode composed of composite fiber material having fibers configured to radiate heat away from a focal point [0016]. The reference fails to disclose the fibers as possessing a longitudinal heat dissipation direction wherein a majority of the fibers have opposite end faces that terminate bluntly at a focal ring and at a surface (of a cooling system aligned with the anode axis) with respective end surfaces in direct, heat-conducting, abutting contact with the focal ring and with the cooling system. Examiner notes that the Application Publication does not qualify as prior art under 102 and/or 103, as it is applicant's own work (see MPEP 2132 sec. III and 2132.01).

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Courtney Thomas whose telephone number is (571) 272-2496.

The examiner can normally be reached on M - F (9 am - 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on (571) 272 2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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Courtney Thomas CT

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Examiner

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SUPERVISORY PATENT EXAMINER